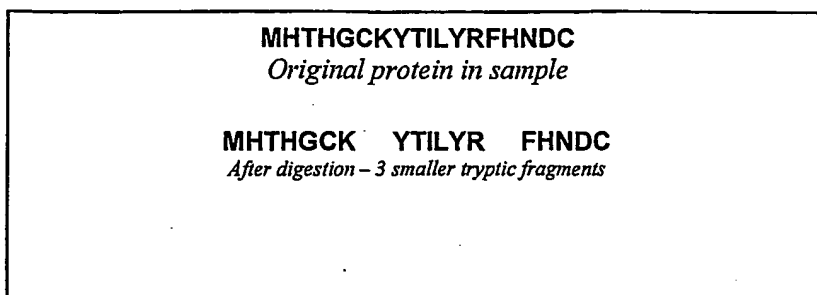


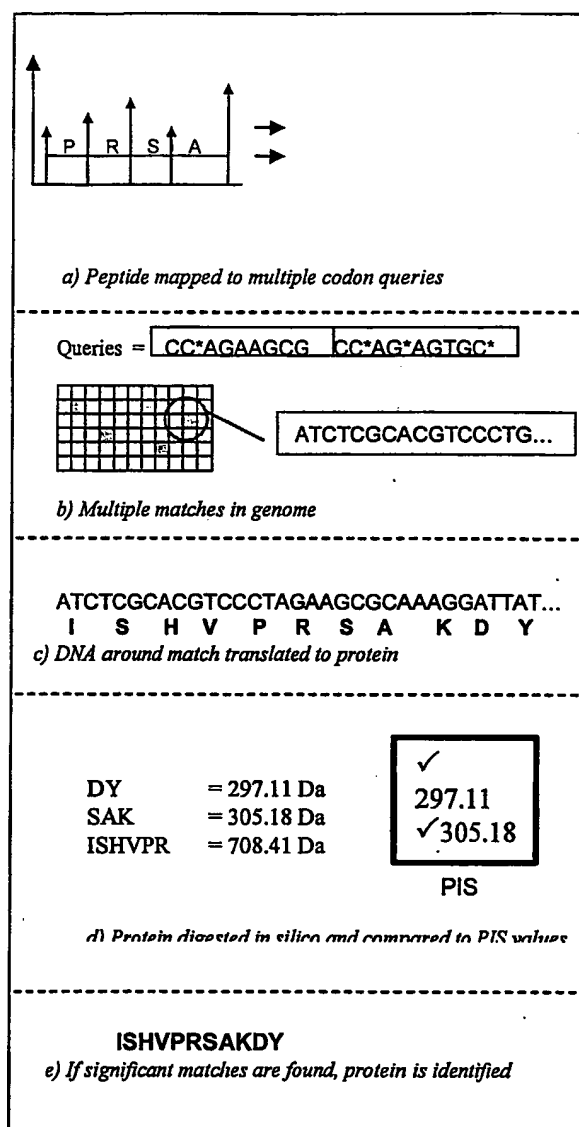
1/38

Figure 1



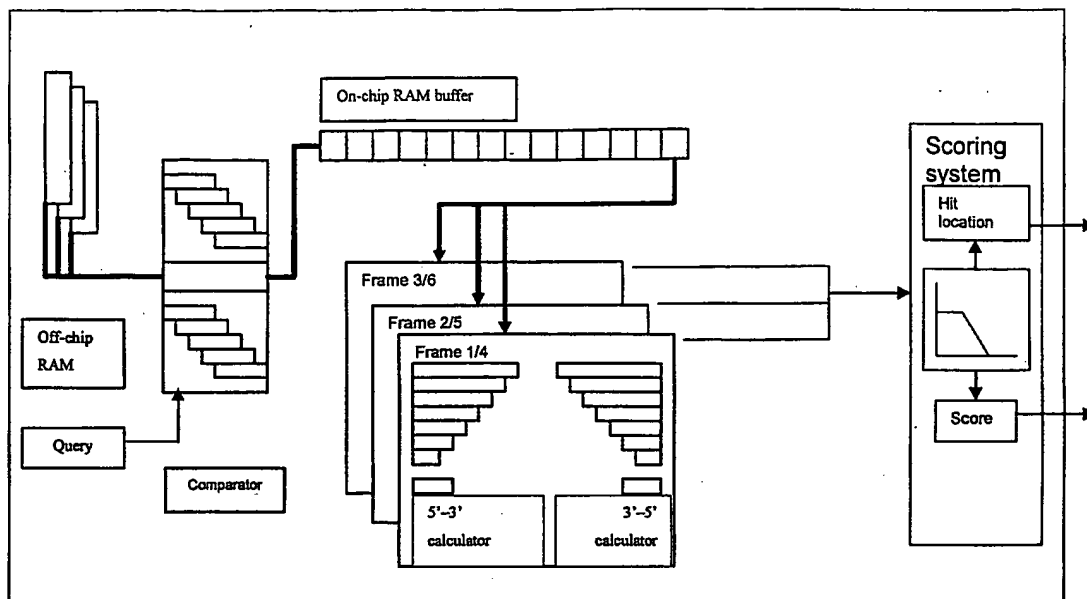
2/38

Figure 2



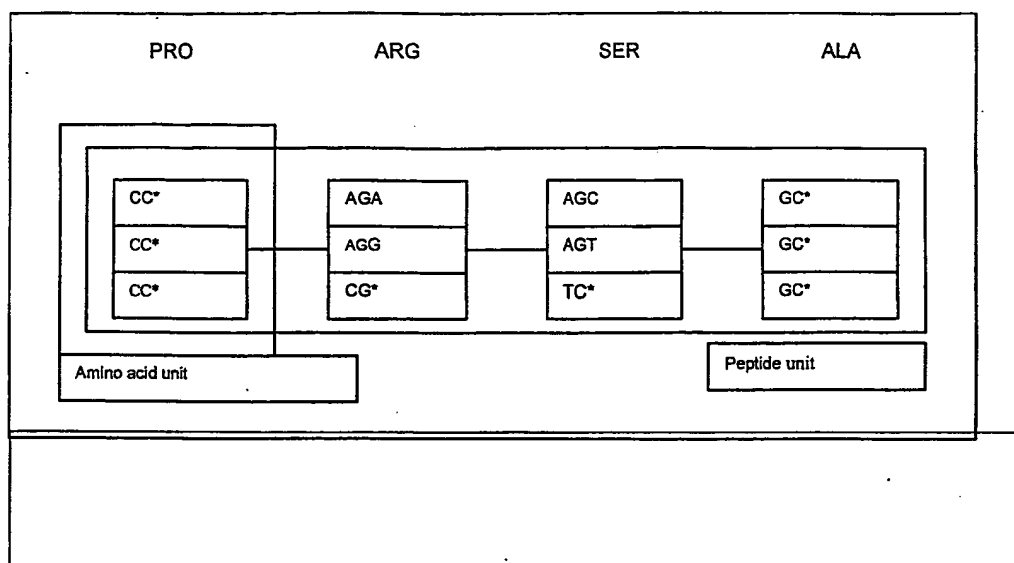
3/38

Figure 3



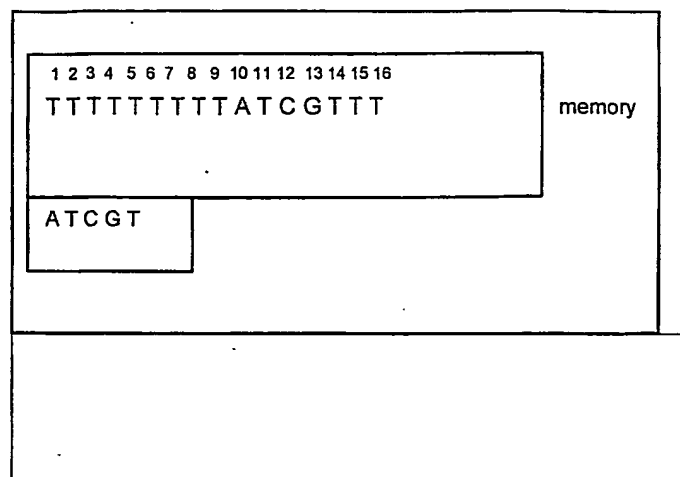
4/38

Figure 4



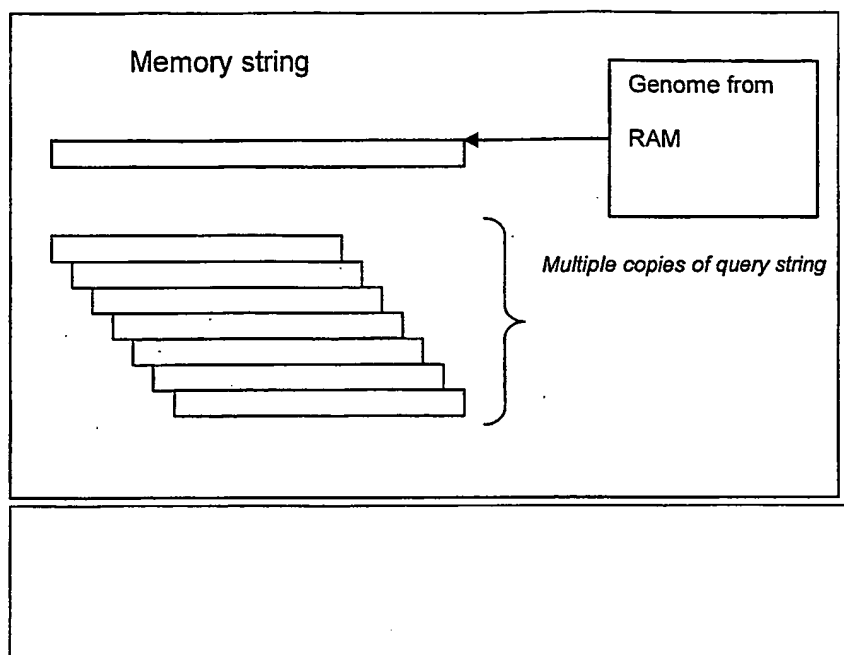
5/38

Figure 5



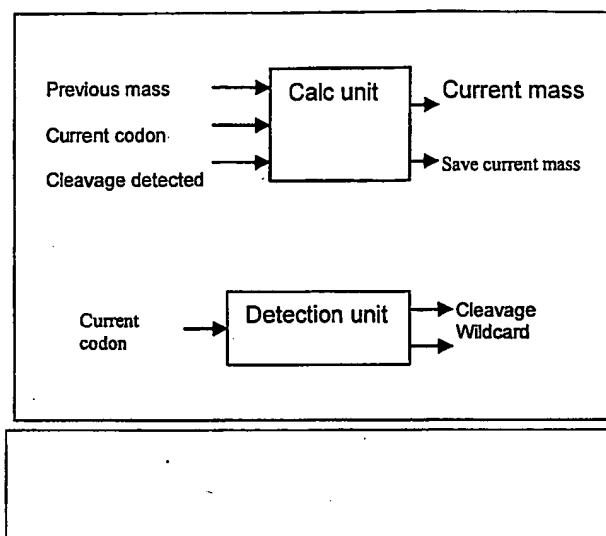
6/38

Figure 6



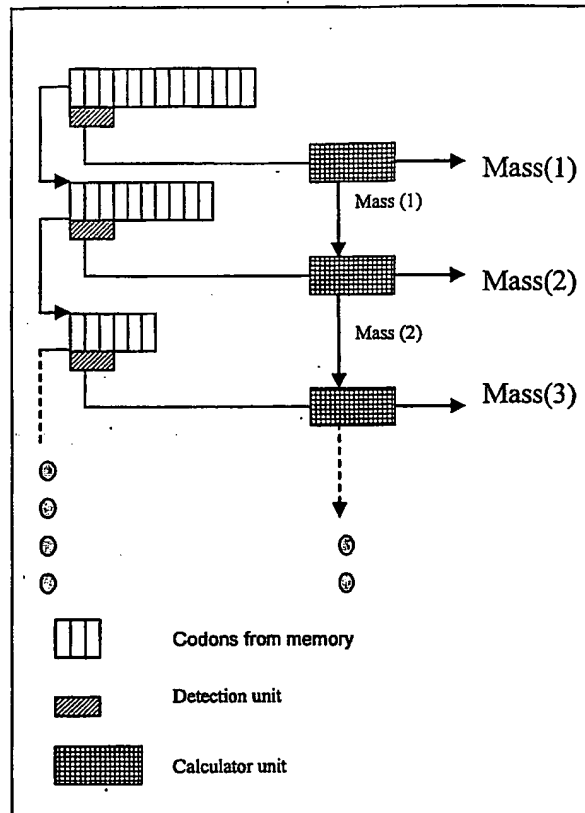
7/38

Figure 7



8/38

Figure 8



9/38

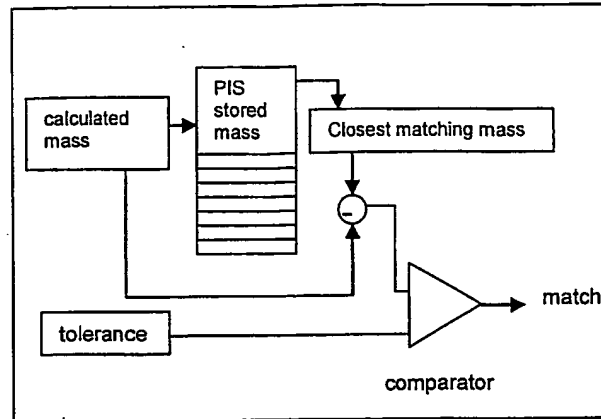
Figure 9

ATG ACT CCA GAC	Original strand
GTC TGG AGT CAT	Complementary strand

Original	Complemen
ATG	CAT
ACT	AGT
CCA	TGG
GAC	GTC

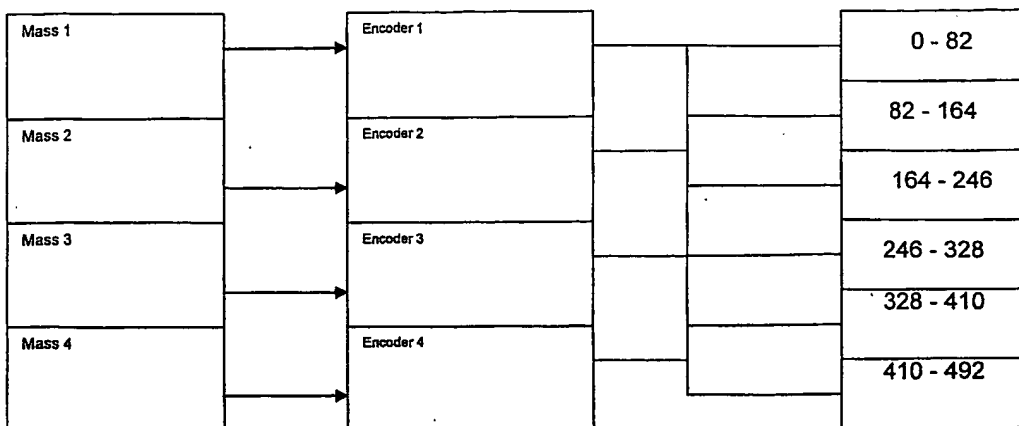
10/38

Figure 10



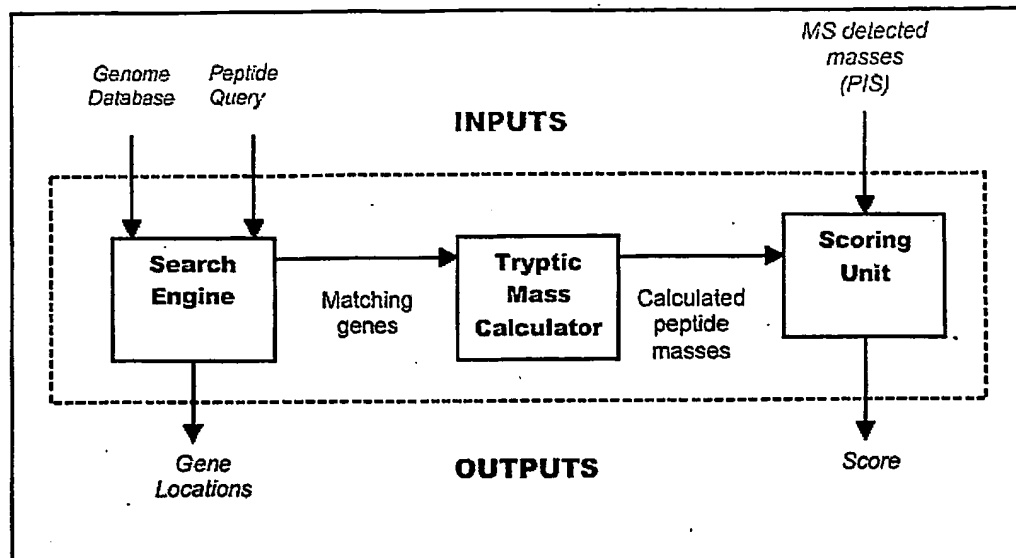
11/38

Figure 11



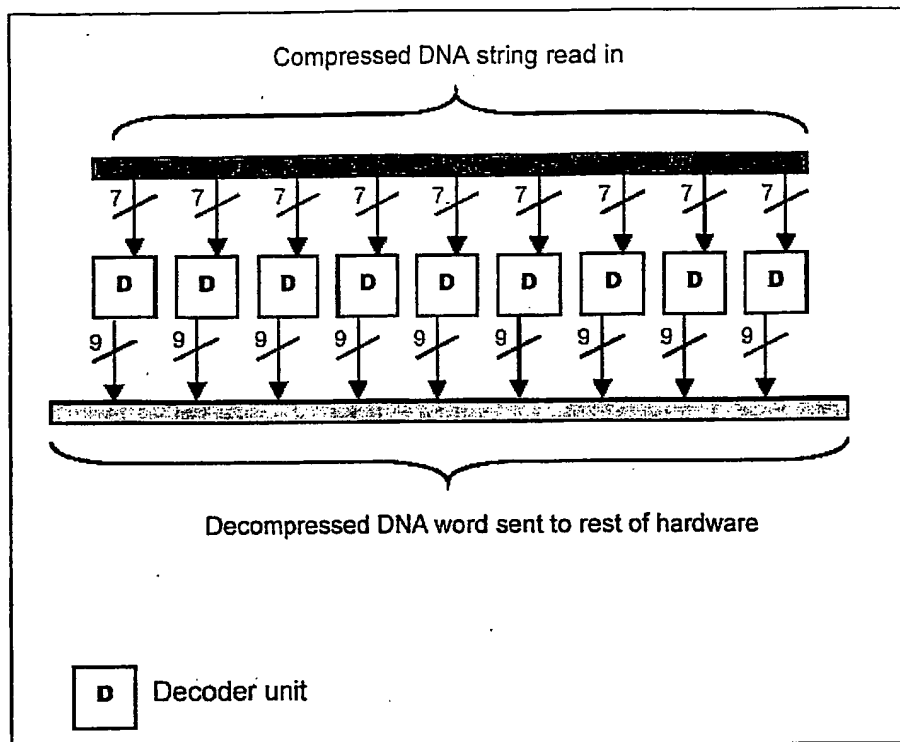
12/38

Figure 12



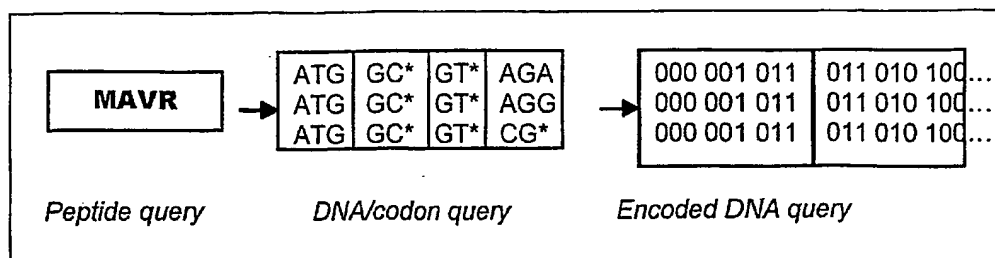
13/38

Figure 13



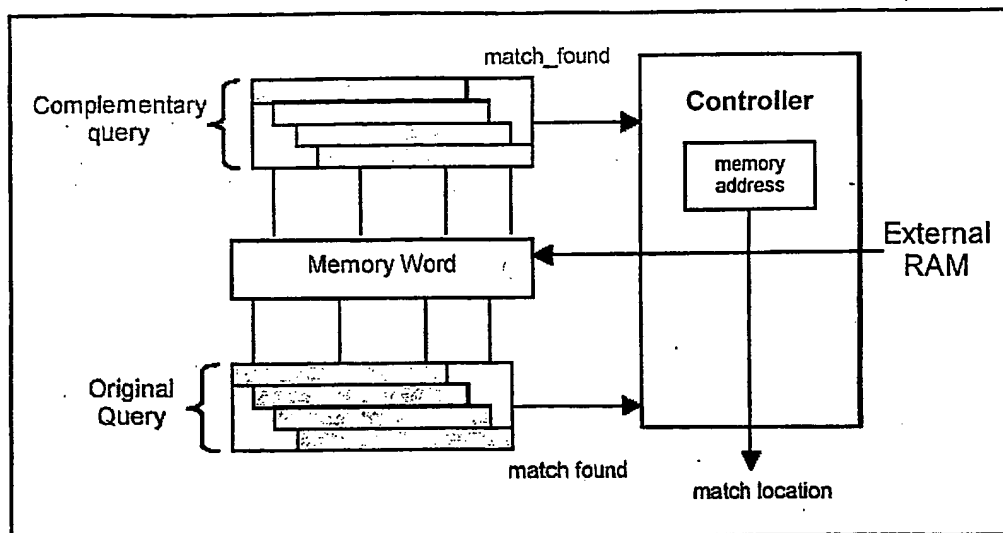
14/38

Figure 14



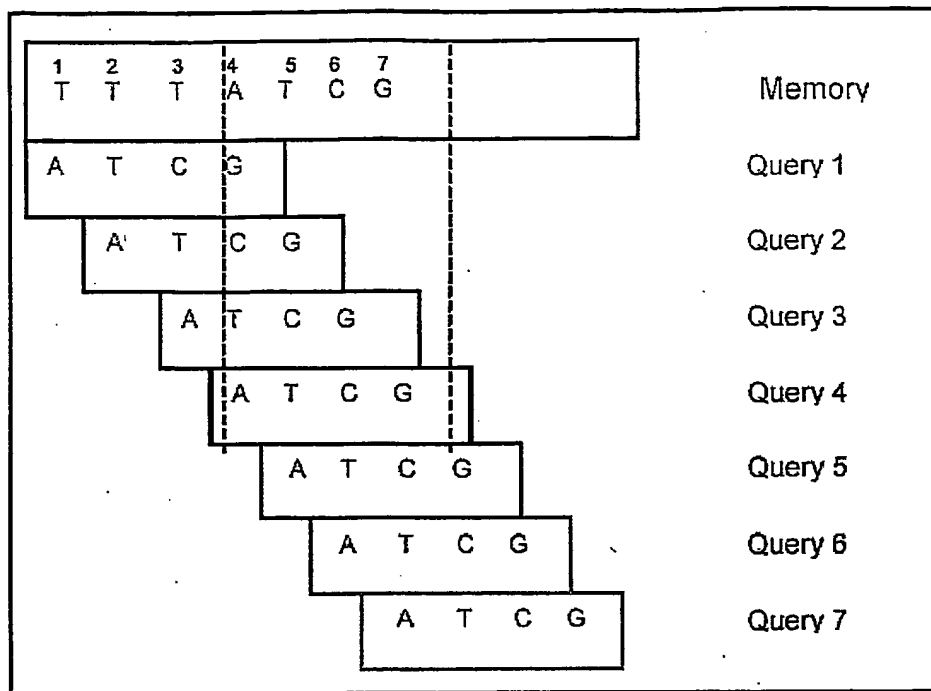
15/38

Figure 15



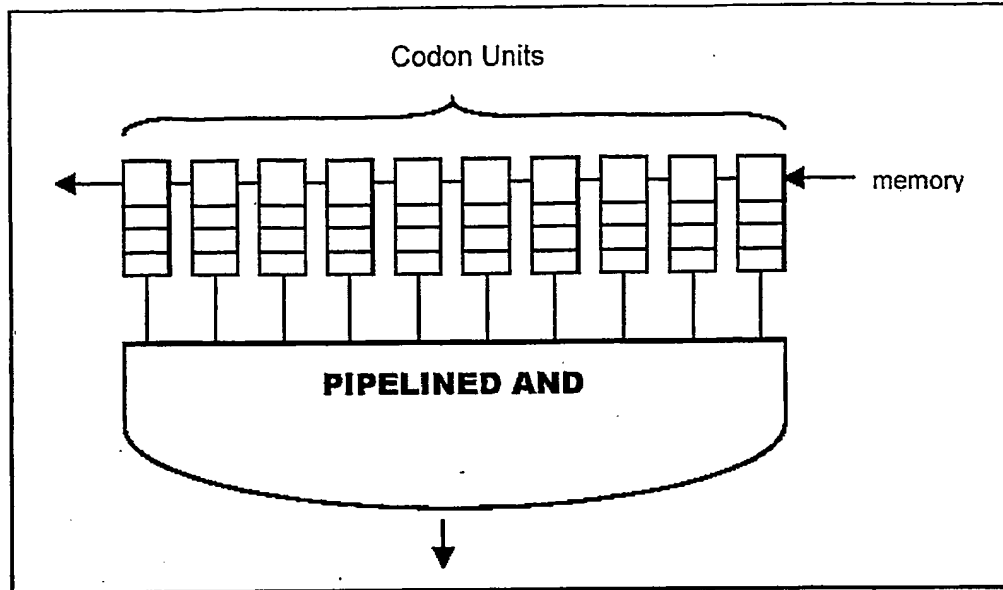
16/38

Figure 16



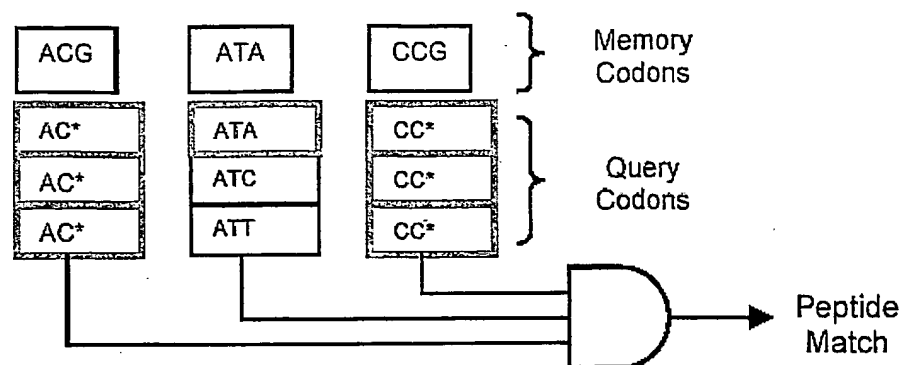
17/38

Figure 17



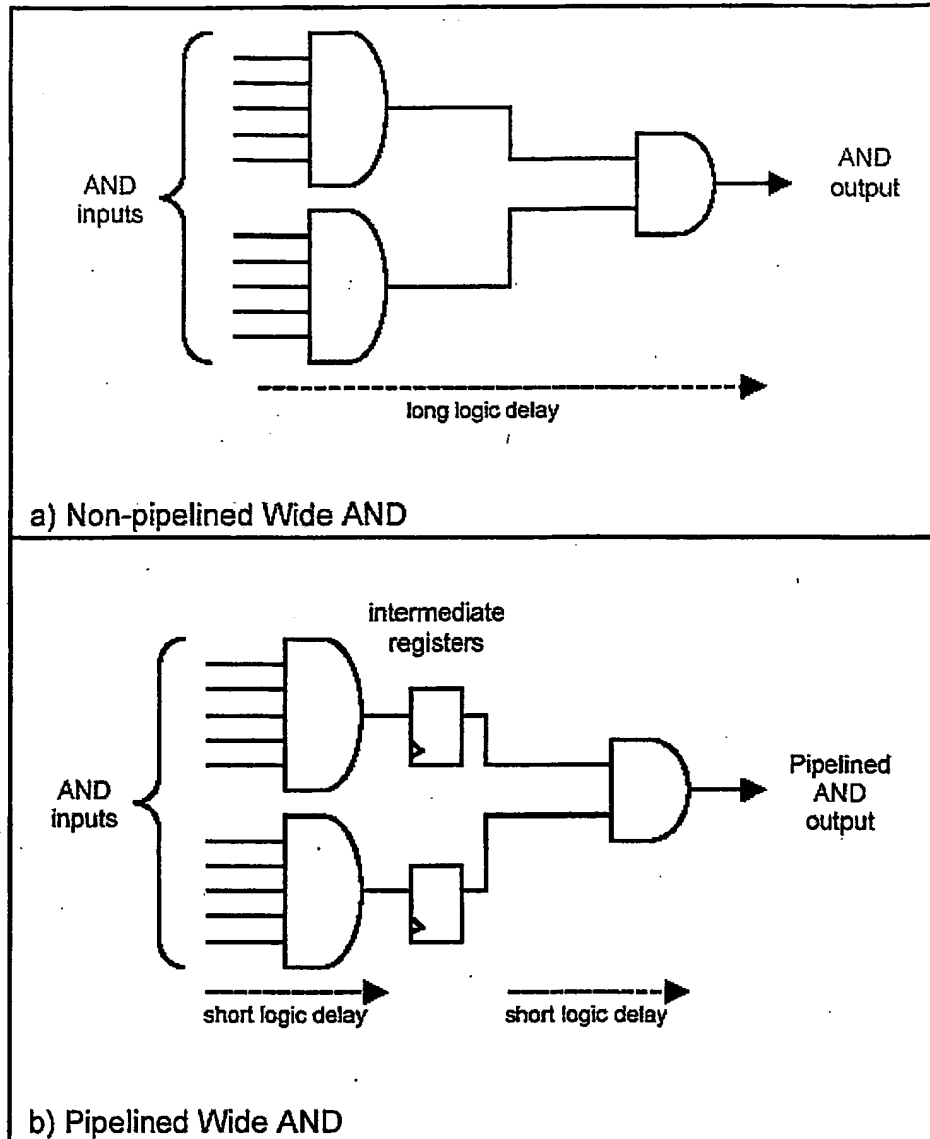
18/38

Figure 18



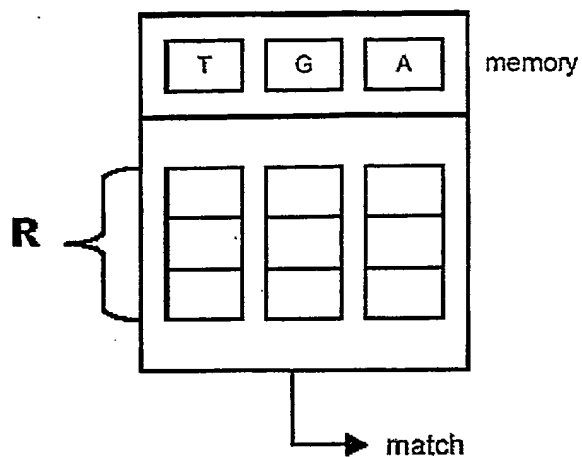
19/38

Figure 19



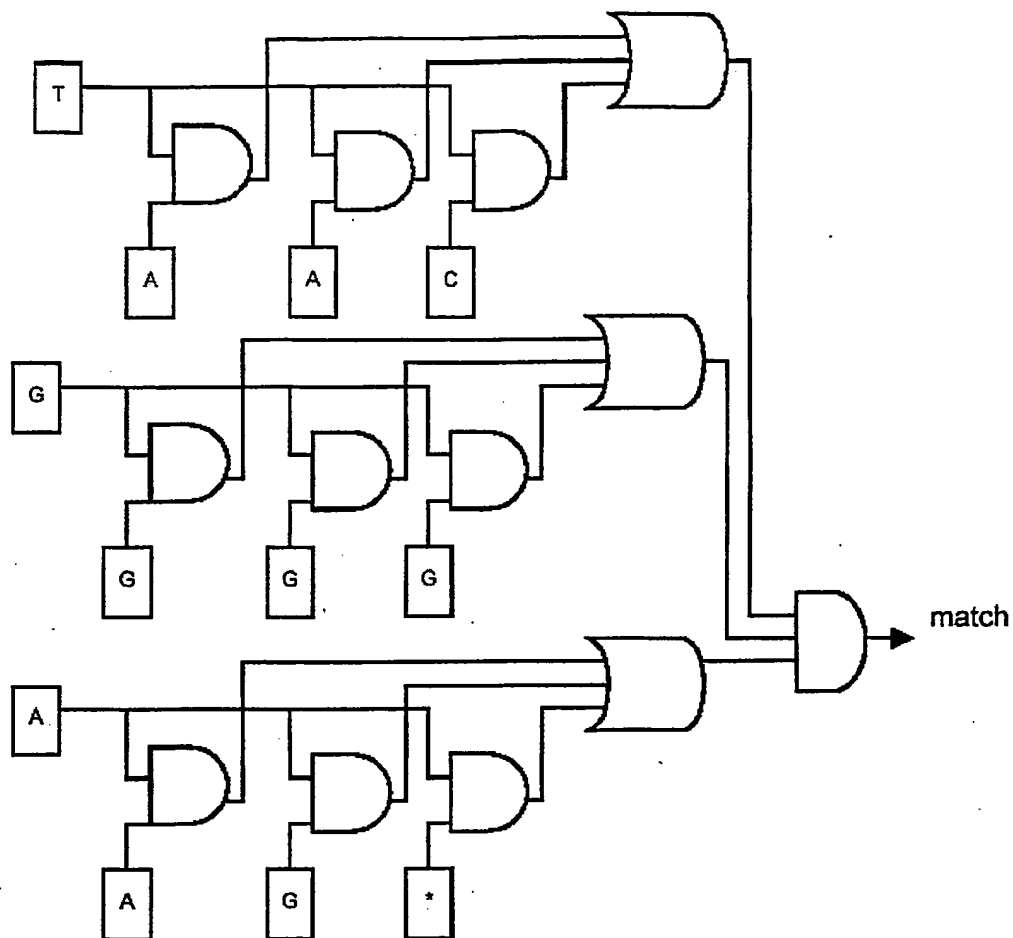
20/38

Figure 20



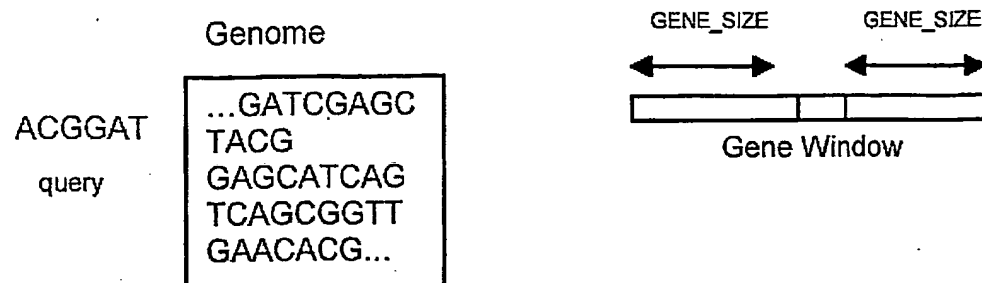
21/38

Figure 21



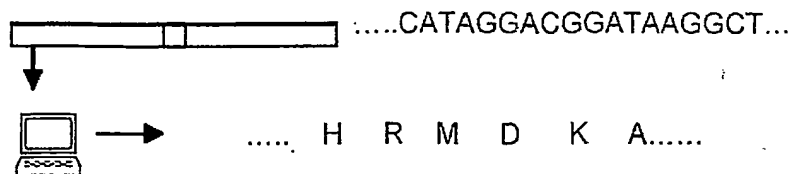
22/38

Figure 22



23/38

Figure 23



Translation

24/38

Figure 24

..... H R M D K A.....



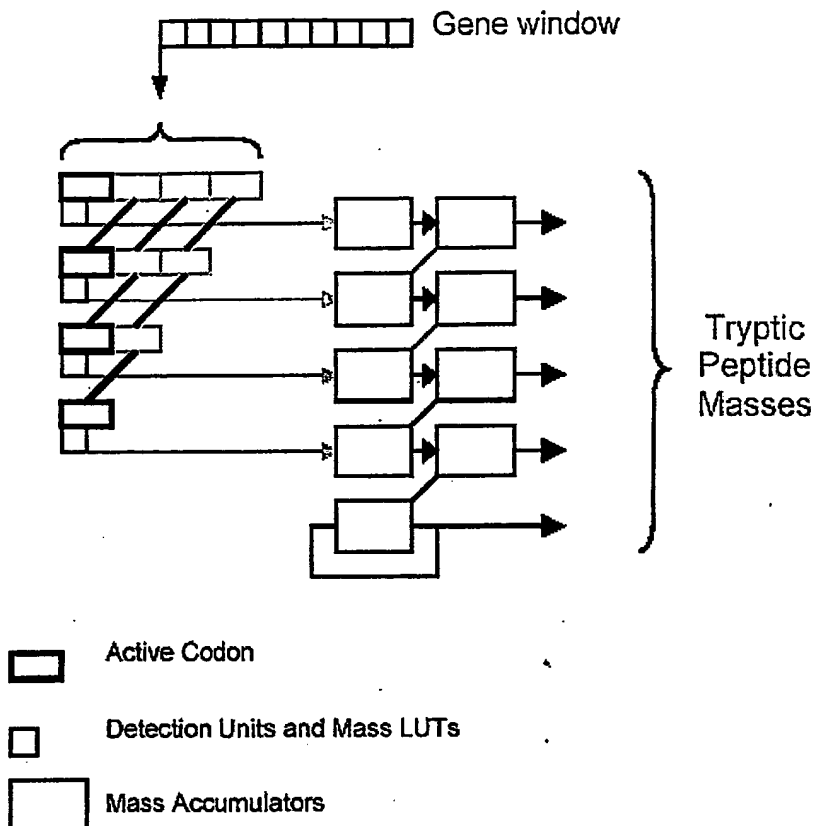
...HR
MDK

225.32 Da
127.11 Da

Digestion**Calculation**

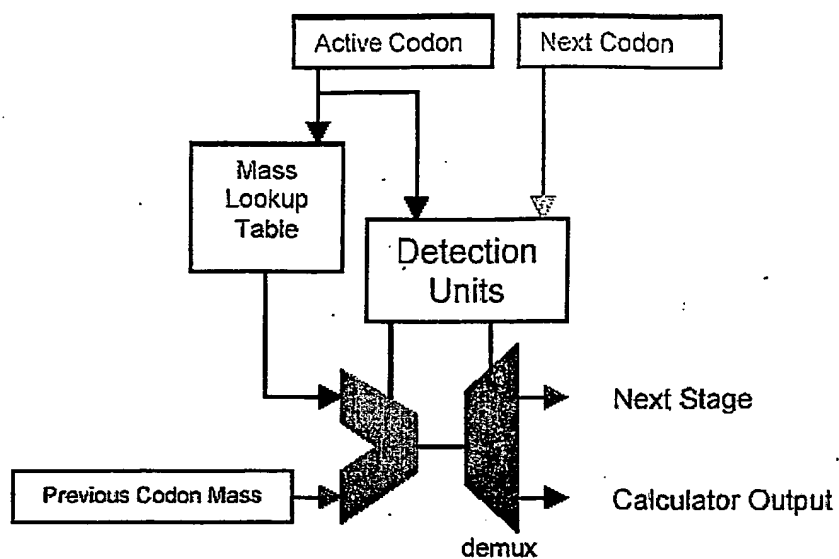
25/38

Figure 25



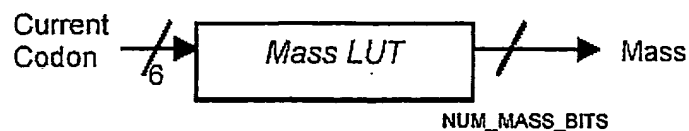
26/38

Figure 26

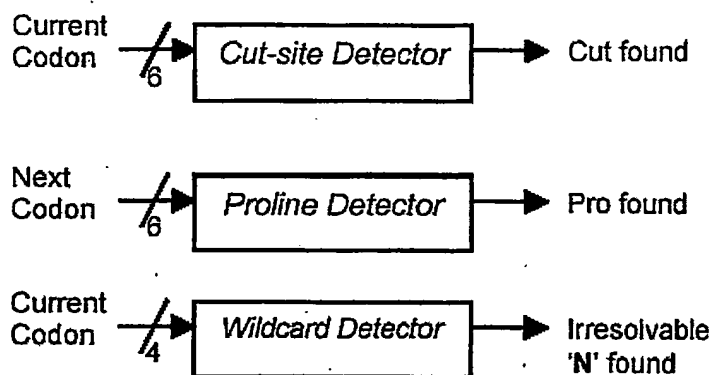


27/38

Figure 27



a) Mass Lookup Table(LUT)



b) Detection Units

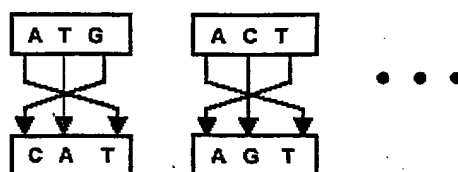
28/38

Figure 28

ATG ACT CCA GAC	Original strand
GTC TGG AGT CAT	Complementary strand

a) DNA Strand and its Complement

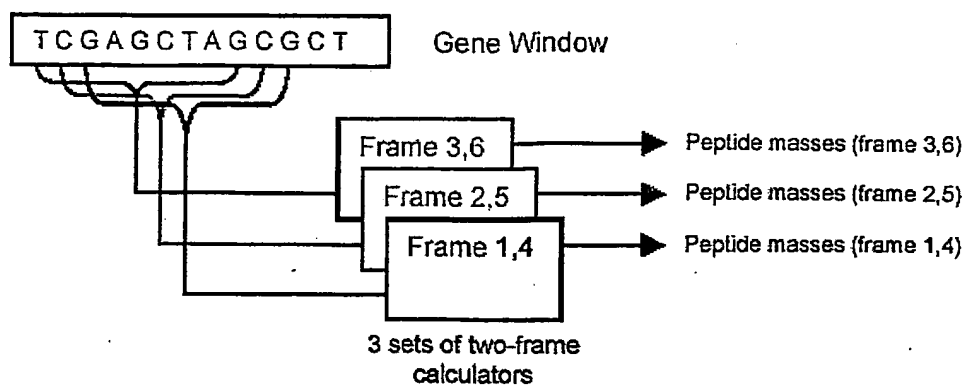
Original	Complement
ATG	CAT
ACT	AGT
CCA	TGG
GAC	GTC



a) Mapping codons to their complements

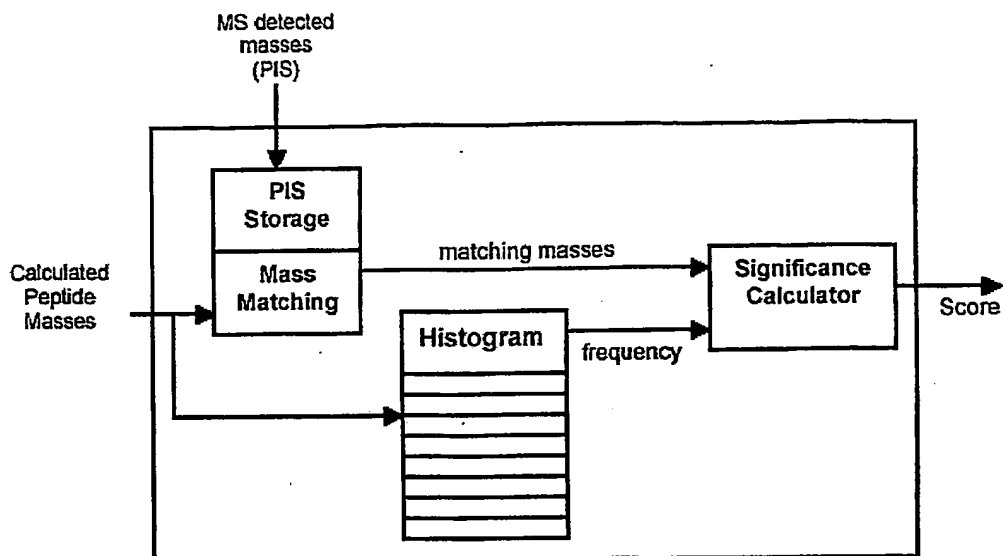
29/38

Figure 29



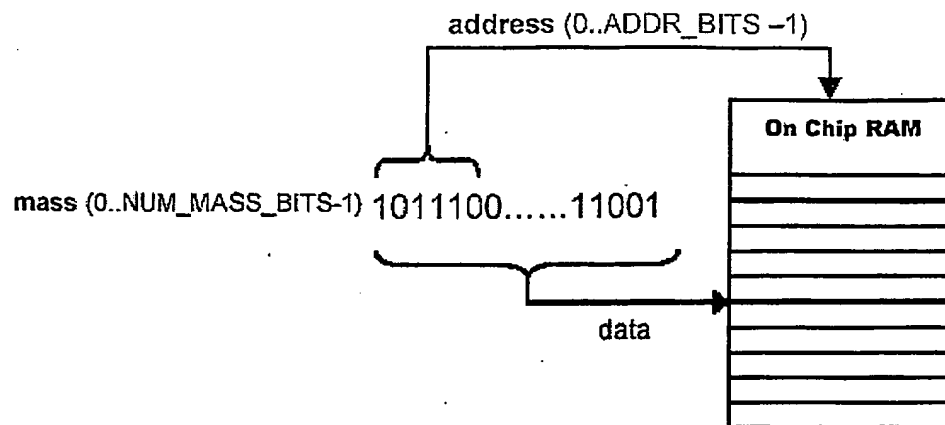
30/38

Figure 30



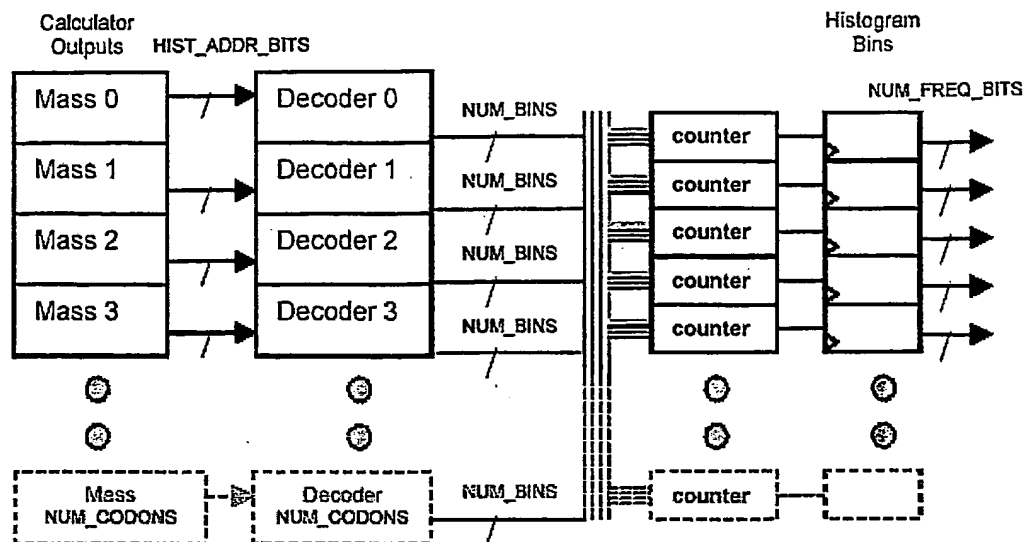
31/38

Figure 31



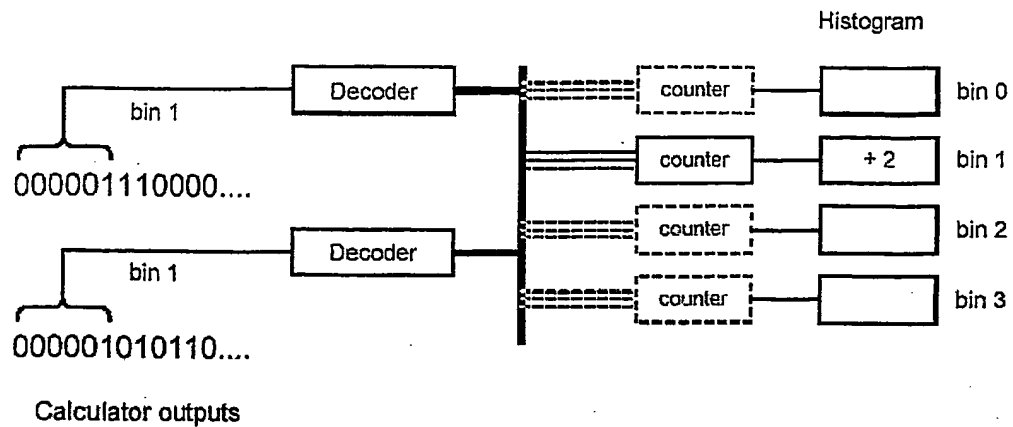
32/38

Figure 32



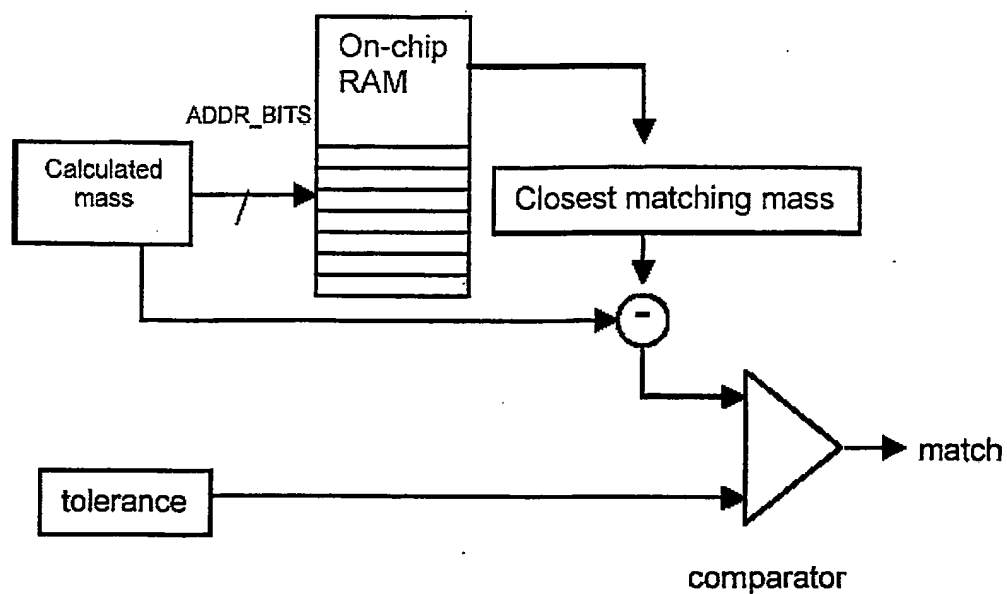
33/38

Figure 33



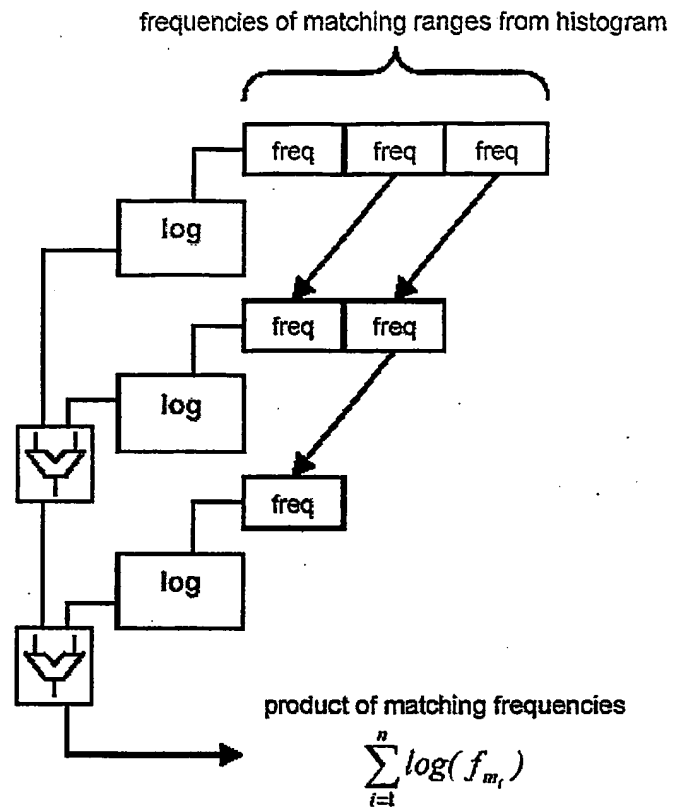
34/38

Figure 34



35/38

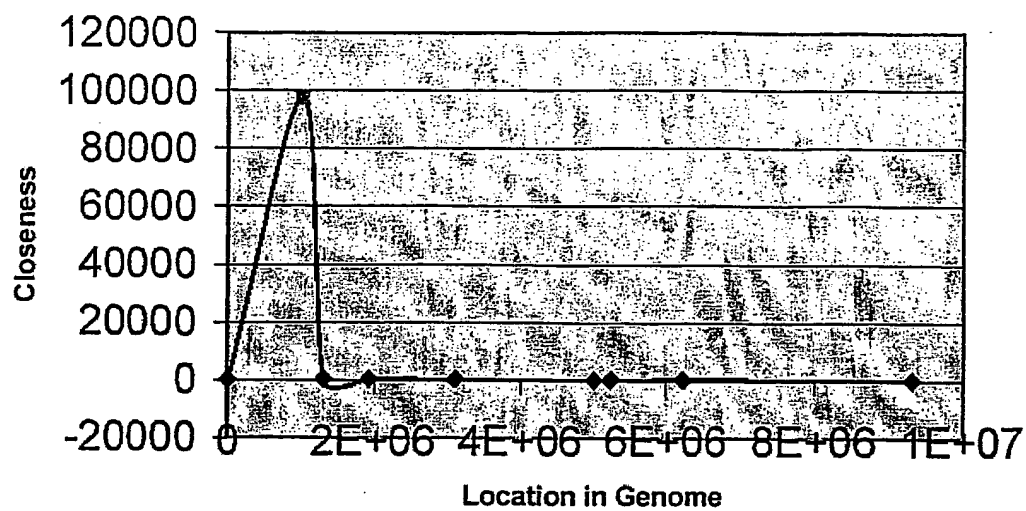
Figure 35



36/38

Figure 36

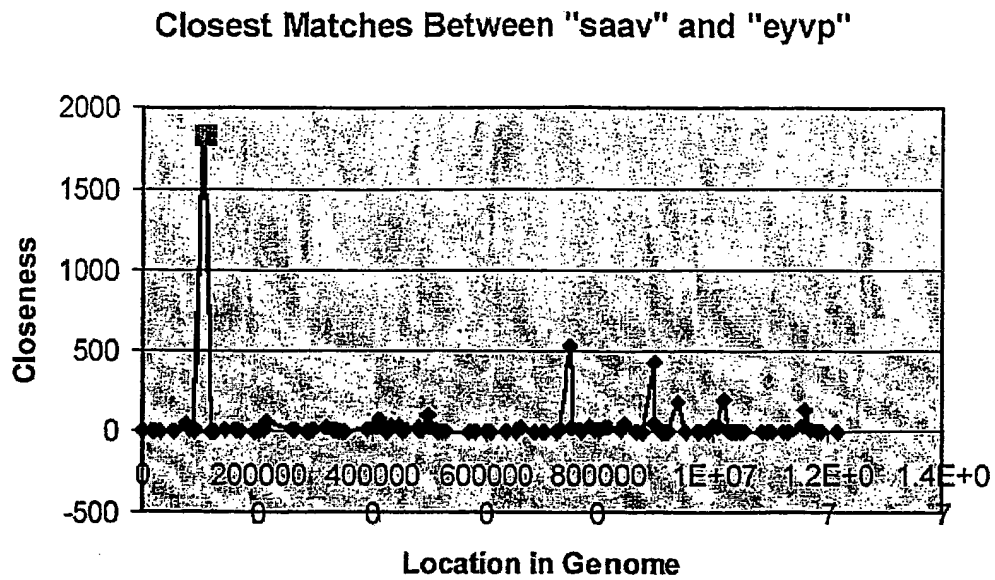
Closest matches between "ilfak" and "eyvpr"



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37/38

Figure 37



38/38

Figure 38

